

New [Enhancer-Gene Map](#) [PANTHER16.0 Released.](#)

Analysis Summary: Please report in publication 

Analysis Type: PANTHER Overrepresentation Test (Released 20210224)

Annotation Version and Release Date: GO Ontology database DOI: 10.5281/zenodo.4495804 Released 2021-02-01

Analyzed List:

genes_for_GO_FST_VIABILITY_TOP1_genotyped.tsv (Homo sapiens)

Change


Reference List:

universe_genotyped.tsv (Homo sapiens)


Change

Annotation Data Set:

GO biological process complete



Test Type: ☒ Fisher's Exact ☐ Binomial

Correction: ☒ Calculate False Discovery Rate ☐ Use the Bonferroni correction for multiple testing  ☐ No correction

Results 

	Reference list	genes_for_GO_FST_VIABILITY_TOP1_genotyped.tsv
Uniquely Mapped IDs:	17122 out of 17137	1918 out of 1961
Unmapped IDs:	15863	1964
Multiple mapping information:	1243	41



Export

Table

XML with user input ids

JSON with user input ids

Displaying only results for FDR P < 0.05, [click here to display all results](#)

	universe_genotyped.tsv (REF)	genes_for_GO_FST_VIABILITY_TOP1_genotyped.tsv ( Hierarchy NEW! 					
	#	#	expected	Fold Enrichment	+/-	raw P value	FDR
GO biological process complete	43	16	4.92	3.25	+	2.15E-04	3.60E-02
glutamate receptor signaling pathway	4770	635	545.83	1.16	+	2.87E-05	6.68E-03
↳signaling	13510	1615	1545.96	1.04	+	2.40E-04	3.89E-02
↳cellular process	4844	640	554.30	1.15	+	6.16E-05	1.28E-02
↳cell communication	9853	1230	1127.49	1.09	+	8.71E-06	2.95E-03
↳regulation of cellular process	10340	1279	1183.21	1.08	+	2.64E-05	6.23E-03
↳regulation of biological process	10963	1358	1254.50	1.08	+	3.14E-06	1.26E-03
↳biological regulation	46	17	5.26	3.23	+	1.48E-04	2.67E-02
neuron recognition	774	160	88.57	1.81	+	4.73E-11	2.46E-07
↳neuron development	1492	255	170.73	1.49	+	2.31E-09	3.27E-06
↳cell development	3190	450	365.03	1.23	+	5.99E-06	2.12E-03
↳cell differentiation	3239	457	370.64	1.23	+	4.44E-06	1.65E-03
↳cellular developmental process	5180	682	592.75	1.15	+	4.39E-05	9.63E-03
↳developmental process	4781	648	547.09	1.18	+	2.50E-06	1.02E-03
↳anatomical structure development	949	185	108.59	1.70	+	1.10E-10	3.42E-07
↳neuron differentiation	1154	217	132.05	1.64	+	3.16E-11	2.46E-07
↳generation of neurons	1267	235	144.98	1.62	+	1.73E-11	2.70E-07
↳neurogenesis	2006	330	229.55	1.44	+	3.41E-10	7.59E-07
↳nervous system development	3902	548	446.51	1.23	+	5.03E-07	2.70E-04
↳system development	4441	610	508.19	1.20	+	1.13E-06	5.66E-04
↳multicellular organism development	53	18	6.06	2.97	+	2.25E-04	3.74E-02
dendrite morphogenesis	417	94	47.72	1.97	+	2.02E-08	1.75E-05
↳cell morphogenesis involved in neuron differentiation	512	106	58.59	1.81	+	1.14E-07	7.72E-05
↳cell morphogenesis involved in differentiation	659	134	75.41	1.78	+	5.11E-09	6.12E-06
↳cell morphogenesis	1979	308	226.46	1.36	+	2.12E-07	1.27E-04
↳anatomical structure morphogenesis	98	29	11.21	2.59	+	4.37E-05	9.73E-03
↳dendrite development	634	129	72.55	1.78	+	1.13E-08	1.04E-05
↳neuron projection development	1084	183	124.04	1.48	+	1.23E-06	5.99E-04
↳plasma membrane bounded cell projection organization	1124	187	128.62	1.45	+	2.27E-06	9.54E-04
↳cell projection organization	5079	678	581.19	1.17	+	8.78E-06	2.91E-03
↳cellular component organization	5278	688	603.97	1.14	+	1.26E-04	2.42E-02
↳cellular component organization or biogenesis	462	103	52.87	1.95	+	5.62E-09	5.83E-06
↳neuron projection morphogenesis	466	104	53.32	1.95	+	6.09E-09	5.93E-06
↳plasma membrane bounded cell projection morphogenesis	469	105	53.67	1.96	+	4.47E-09	5.80E-06
↳cell projection morphogenesis	486	107	55.61	1.92	+	5.38E-09	5.99E-06
↳cell part morphogenesis	566	115	64.77	1.78	+	7.42E-08	5.26E-05
↳cellular component morphogenesis	86	26	9.84	2.64	+	5.80E-05	1.24E-02
regulation of synapse assembly							

regulation of synapse organization	190	42	21.74	1.93	+	2.78E-04	4.46E-02
regulation of cellular component organization	2180	311	249.46	1.25	+	1.31E-04	2.42E-02
regulation of synapse structure or activity	201	45	23.00	1.96	+	1.19E-04	2.32E-02
regulation of biological quality	3668	520	419.73	1.24	+	3.84E-07	2.14E-04
synapse organization	254	66	29.07	2.27	+	3.87E-08	3.02E-05
cell junction organization	460	99	52.64	1.88	+	5.66E-08	4.20E-05
axon guidance	260	65	29.75	2.18	+	1.48E-07	9.62E-05
neuron projection guidance	261	65	29.87	2.18	+	1.58E-07	9.82E-05
locomotion	1177	191	134.69	1.42	+	7.00E-06	2.42E-03
movement of cell or subcellular component	1421	240	162.61	1.48	+	2.09E-08	1.71E-05
axonogenesis	357	79	40.85	1.93	+	5.52E-07	2.87E-04
axon development	389	80	44.51	1.80	+	4.76E-06	1.72E-03
cell-cell adhesion via plasma-membrane adhesion molecules	240	52	27.46	1.89	+	8.47E-05	1.71E-02
cell-cell adhesion	476	99	54.47	1.82	+	2.74E-07	1.58E-04
cell adhesion	884	176	101.16	1.74	+	7.64E-11	2.98E-07
biological adhesion	889	176	101.73	1.73	+	1.20E-10	3.12E-07
regulation of transporter activity	260	54	29.75	1.82	+	1.54E-04	2.76E-02
regulation of molecular function	2872	403	328.65	1.23	+	3.86E-05	8.72E-03
extracellular matrix organization	364	75	41.65	1.80	+	1.01E-05	3.16E-03
extracellular structure organization	365	75	41.77	1.80	+	1.05E-05	3.21E-03
external encapsulating structure organization	367	75	42.00	1.79	+	1.14E-05	3.30E-03
modulation of chemical synaptic transmission	402	81	46.00	1.76	+	9.05E-06	2.94E-03
regulation of trans-synaptic signaling	403	81	46.12	1.76	+	9.36E-06	2.98E-03
regulation of cell communication	3133	471	358.51	1.31	+	2.20E-09	3.42E-06
regulation of signaling	3166	477	362.29	1.32	+	1.21E-09	2.35E-06
regulation of neuron projection development	413	82	47.26	1.74	+	1.19E-05	3.37E-03
regulation of plasma membrane bounded cell projection organization	582	111	66.60	1.67	+	2.05E-06	8.87E-04
regulation of cell projection organization	598	114	68.43	1.67	+	1.48E-06	6.79E-04
regulation of GTPase activity	438	86	50.12	1.72	+	1.06E-05	3.17E-03
regulation of hydrolase activity	1181	182	135.14	1.35	+	1.71E-04	3.00E-02
regulation of catalytic activity	2287	321	261.70	1.23	+	3.02E-04	4.76E-02
positive regulation of cell adhesion	409	77	46.80	1.65	+	1.06E-04	2.08E-02
regulation of cell adhesion	681	121	77.93	1.55	+	1.32E-05	3.54E-03
positive regulation of cellular process	5050	672	577.88	1.16	+	1.37E-05	3.57E-03
positive regulation of biological process	5544	730	634.40	1.15	+	1.59E-05	3.99E-03
trans-synaptic signaling	402	75	46.00	1.63	+	1.70E-04	3.01E-02
synaptic signaling	426	79	48.75	1.62	+	1.40E-04	2.56E-02
regulation of membrane potential	404	74	46.23	1.60	+	3.15E-04	4.86E-02
regulation of ion transmembrane transport	530	96	60.65	1.58	+	5.53E-05	1.20E-02
regulation of ion transport	1240	189	141.89	1.33	+	2.00E-04	3.42E-02
regulation of transport	1636	247	187.21	1.32	+	3.12E-05	7.15E-03
regulation of localization	2536	395	290.20	1.36	+	1.96E-09	3.40E-06
regulation of transmembrane transport	535	97	61.22	1.58	+	5.82E-05	1.23E-02
regulation of cell migration	814	140	93.15	1.50	+	1.13E-05	3.31E-03
regulation of cell motility	872	148	99.78	1.48	+	1.28E-05	3.56E-03
regulation of cellular component movement	949	162	108.59	1.49	+	3.31E-06	1.29E-03
regulation of locomotion	915	152	104.70	1.45	+	2.48E-05	5.95E-03
tube morphogenesis	600	102	68.66	1.49	+	2.92E-04	4.64E-02
regulation of anatomical structure morphogenesis	882	148	100.93	1.47	+	2.27E-05	5.60E-03
regulation of developmental process	2237	332	255.98	1.30	+	3.85E-06	1.46E-03
regulation of protein localization	839	136	96.01	1.42	+	1.81E-04	3.13E-02
positive regulation of developmental process	1167	179	133.54	1.34	+	2.29E-04	3.76E-02
positive regulation of molecular function	1612	239	184.46	1.30	+	1.27E-04	2.41E-02
regulation of signal transduction	2778	403	317.89	1.27	+	1.82E-06	8.10E-04
regulation of response to stimulus	3741	524	428.09	1.22	+	1.29E-06	6.09E-04
detection of chemical stimulus involved in sensory perception of smell	344	14	39.36	.36	-	1.34E-05	3.53E-03
detection of chemical stimulus involved in sensory perception	384	17	43.94	.39	-	1.28E-05	3.51E-03
detection of chemical stimulus	419	20	47.95	.42	-	1.53E-05	3.90E-03
sensory perception of chemical stimulus	436	23	49.89	.46	-	6.42E-05	1.32E-02
sensory perception of smell	369	18	42.22	.43	-	8.72E-05	1.74E-02
mitochondrial translational termination	82	0	9.38	< 0.01	-	3.19E-04	4.87E-02
translational termination	88	0	10.07	< 0.01	-	1.30E-04	2.45E-02
mitochondrial translation	103	0	11.79	< 0.01	-	2.48E-05	6.04E-03
mitochondrial gene expression	128	2	14.65	.14	-	2.06E-04	3.49E-02
mitochondrial translational elongation	81	0	9.27	< 0.01	-	3.04E-04	4.74E-02